Welcome to the workshop!

Workshop on new orchard co-design

February 2, 2018 (H-house seminar room)
Address: Växtskyddsvägen 1, 23053 Alnarp (Sweden)

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Workshop on new orchard co-design

9:00 Coffee and Welcome

9:15 The idea of a new orchard with an increased diversity (MT)

9:45 Groupwork 1: adding diversity to an existing orchard

10:15 Coffee break

10:30 Groupwork 1 and Group sharing

11:30 Lunch

12:30 Visit to an orchard with added diversity in Alnarp

13:30 How to add further diversity: examples from Agroforestry (MT)

14:00 Groupwork 2: designing a new orchard with high diversity

14:45 Coffee break

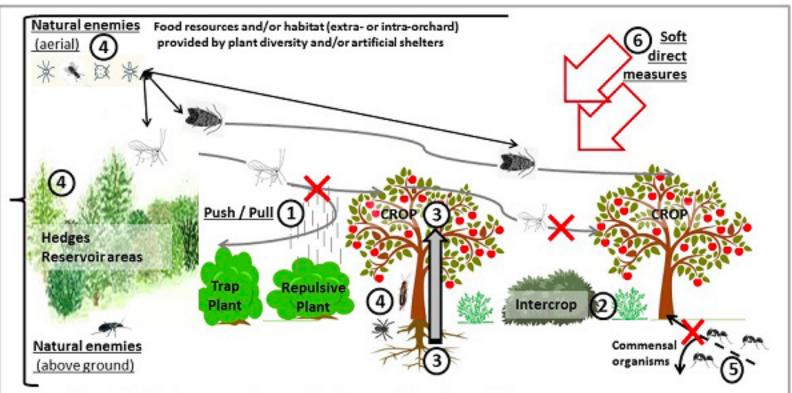
15:00 Group sharing

15:30 Wrap up of the day and conclusion of the workshop

Facilitators: Marco Tasin, Joakim Pållson, Sebastian Larsson Herrera

Why and how should we diversify our monoculture fruit orchards?

- Biodiversity for the landscape and functional agro-biodiversity
 Pollination
- Biological control (SNAP: Shelter, Nectar, Pollen, Alternative Prey)
- Dilution effect on pests (repellency)
- Optimization of flows (corridors, windbreaks, water)
- N-fixation
- Increase the efficiency of the system
- Overwinter and hunting sites (Mammals, Reptiles, Insects, Spiders, Birds)
- Soil fertility and nutrient cycling, soil biodiversity
- Decrease the risk of non-production and wide the customer range
- Spread labor peaks
- Animals (for later)
- (....)



- 1- Push& Push/Pull using trap and/or repulsive plants emitting plant volatiles
- 2- Barrier and dilution effects by increasing plant diversity within orchard
- 3-Bottom up processes through cultivar, tree nutrition, manipulation of tree architecture
- 4- Top-down processes mediated by naturally occurring natural enemies of pests (aerial and aboveground), through provision of food resources and/or habitat within the orchard and outside
- 5- Diversion of commensal organisms (ants)
- 6- Direct measures with soft practices, using predictive models to assess damage risk, including release of indigenous or exotic natural enemies.

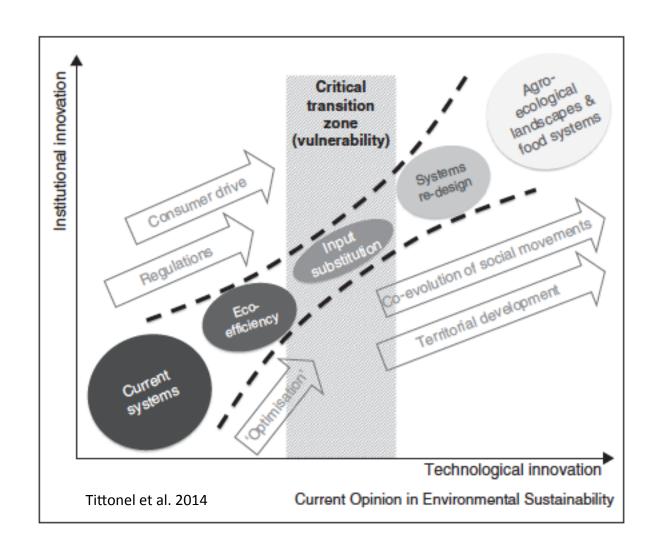
2 Mixed Groups

9:45 Groupwork 1: adding diversity to an existing orchard

10:15 Coffee break

10:30 Groupwork 1 and Group sharing (will be recorded, if everyone agrees)

11:30 Lunch



2 Mixed Groups

14:00 Groupwork 2: : designing a new orchard with high diversity

14:45 Coffee break

15:00 Groupwork 2 and Group sharing (will be recorded, if everyone agrees)

Use of Agroforestry concept to create new productive orchards

Consider the Permaculture principles during the process:

- -Observe and interact
- -Catch and store energy
- -Obtain a yield
- -Apply self-regulation and accept feedback
- -Use and value renewable resources and services
- -Produce no waste
- -Design from patterns to details
- -Integrate rather than segregate
- -Use small and slow solutions
- -Use and value diversity
- -Use edges and value the marginal
- -Creatively use and respond to change

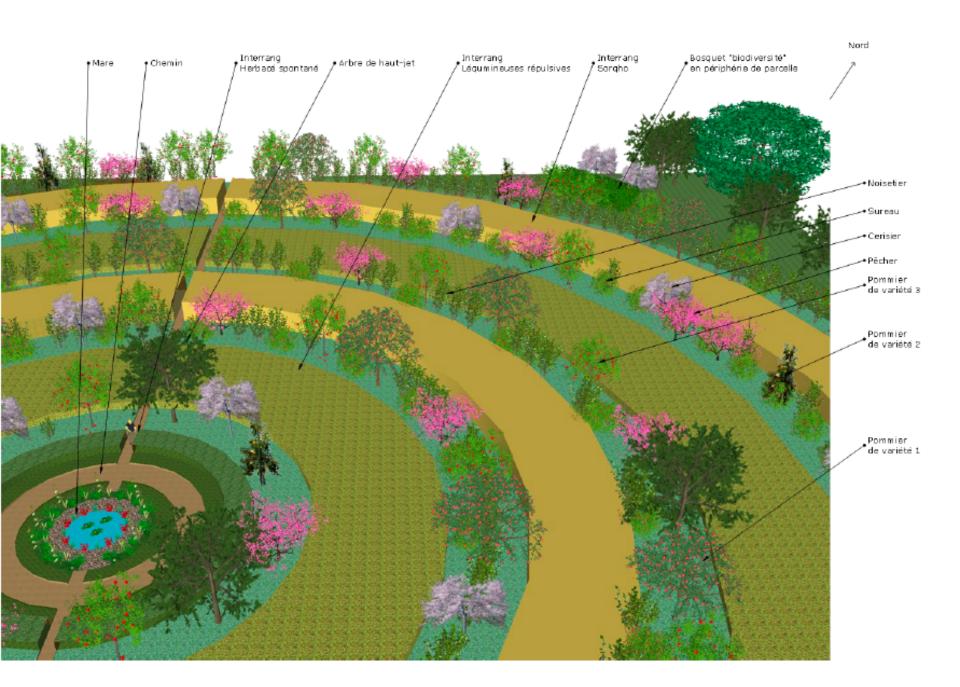


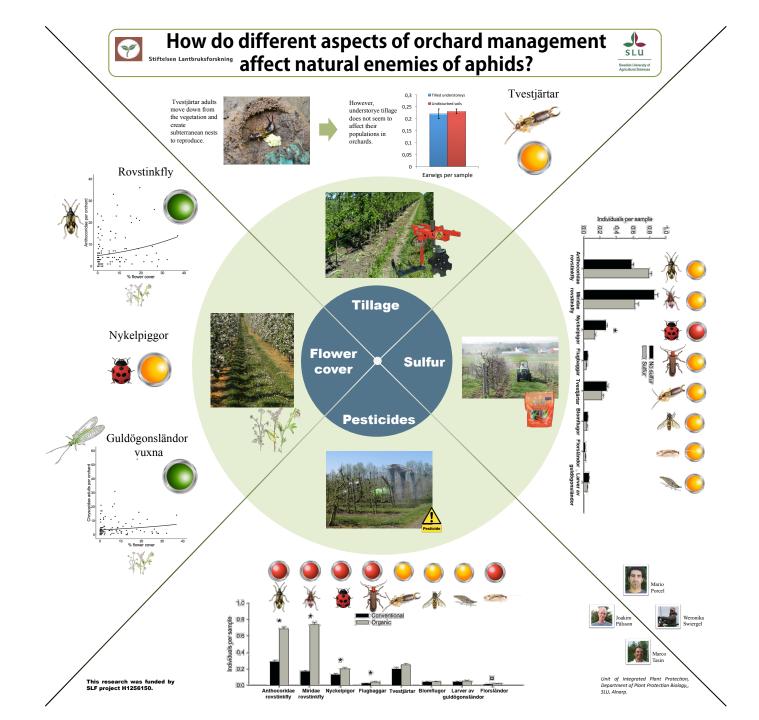














(2015-2017)

Ants protect aphids form predators

